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CFETP 1A2X1  
Parts I-II  
15 May 1998

# **AFSC 1A2X1**

## **Aircraft Loadmaster Specialty**



**CAREER FIELD**  
**EDUCATION AND TRAINING PLAN**

**CAREER FIELD EDUCATION AND TRAINING PLAN  
AIRCRAFT LOADMASTER SPECIALTY  
AFSC 1A2X1**

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**AIRCRAFT LOADMASTER SPECIALTY  
AFSC 1A2X1  
CAREER FIELD EDUCATION AND TRAINING PLAN**

**Part I**

***Preface***

1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education and training requirements, training support resources, and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and instills rigor in all aspects of career field training.
2. The CFETP consists of two parts; both parts of the plan are used by supervisors to plan, manage, and control training within the career field.
  - 2.1 Part I provides information necessary for overall management of the specialty. Section A explains how everyone will use the plan; Section B identifies career progression information, duties and responsibilities, training strategies, and career field path; Section C associates each level with specialty qualifications (knowledge, education, training, and other); Section D indicates resource constraints. Some examples are funds, manpower, equipment, facilities. Section E identifies transitional training guide requirements for SSgt through MSgt. Note: AFMAN 36-2108, *Airman Classification*, contains the specialty descriptions.
  - 2.2. Part II includes the following: Section A identifies the Specialty Training Standard (STS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, wartime course, core tasks, and correspondence course requirements; Section B contains the course objective list and training standards supervisors will use to determine if airmen satisfied training requirements; Section C identifies available support materials. An example is a qualification training package (QTP) which may be developed to support proficiency training. QTPs identified in this section have been developed to support upgrade/qualification training. These packages are identified in AFIND 8, *Numerical Index of Specialized Educational Training Publications*; Section D identifies a training course index which are used to determine resources available to support training. Included here are both mandatory and optional courses; Section E identifies MAJCOM unique training requirements.
3. This CFETP is designed to ensure individuals in AFSC 1A2X1 receive comprehensive and effective training at the appropriate phases of their career. This plan will enable us to train today's work force for tomorrow's jobs. At unit level, supervisors and trainers use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

## ***ABBREVIATIONS/TERMS EXPLAINED***

**Advanced Training (AT).** Formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of the AFS.

**Aircrew Training System (ATS).** A comprehensive listing of tasks and objectives to be trained during formal training.

**Air Force Career Field Manager (AFCFM).** Individual appointed by Air Staff DCS's to manage education, training, and resources for a specific career field(s).

**Basic Aircraft Qualification (BAQ).** An aircrew member who has satisfactorily completed initial qualification training and is qualified to perform aircrew duties in the unit aircraft. The member must perform at the minimum frequency necessary to meet the most recent sortie and flight standards set for that weapon system in the applicable MDS-Specific, Volume 1.

**Basic Mission Capable (BMC).** An aircrew member who has satisfactorily completed mission qualification training, does not maintain MR/CMR status, but maintains familiarization in the command or unit operational mission. The aircrew member may maintain qualification in some aspects of the unit mission, and is able to attain full qualification in the unit mission within 30 days, or otherwise specified in the applicable MDS-Specific, Volume 1.

**Career Development Course (CDC).** A self-paced correspondence course designed to upgrade a skill level.

**Combat Mission Ready (CMR).** An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit operational mission.

**Core Task.** A task AFCFMs identify as essential qualification requirements for upgrade within an AFS. These tasks exemplify the essence of the career field--the foundation. Failure to complete core tasks precludes upgrade. Core tasks not applicable to MAJCOMs are waiverable by MAJCOM functional managers.

**Course Objective Lists (COL).** A publication, derived from our initial skills course training standard, identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3-skill level in this career field. Supervisors use the COL to conduct graduate evaluations in accordance with AFI 36-2201, *Developing, Managing, and Conducting Military Training Programs*.

**Cockpit/Crew Resource Management (CRM).** The effective use of all available resources—people, weapon systems, facilities and equipment, and environment—by individuals or crews to safely and efficiently accomplish an assigned mission or task. The term “CRM” will be used to refer to the training program, objectives, and key skills directed to this end. MAJCOMs may implement their programs as either “cockpit” or “crew” resource management based on their respective missions.

**Enlisted Specialty Training (EST).** A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in each skill level of a specialty.

**Exportable Training.** Additional training via computer assisted, paper text, interactive video, or other necessary means to supplement training.

**Initial Skills Training.** A formal school course that results in an award of a 3-skill level AFSC.

**Instructional System Development (ISD).** A deliberate and orderly, but flexible process for planning, developing, validating, implementing, and reviewing instructional programs. It ensures personnel are taught, in a cost efficient way, the knowledge and skills for successful job performance.

**MAJCOM/FOA EEFI.** Major Command/Field Operating Agency Essential Elements of Friendly Information. Unclassified information that when combined with other information can reveal an insight into classified operations.

**Mission Design Series (MDS).** A term used to identify an aircraft, i.e., C-5, C-130, C-17

**Mission Ready/Combat Mission Ready (MR/CMR).** An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit operational mission.

**On-the-Job Training (OJT).** Hands-on, over-the-shoulder training conducted to certify personnel in both upgrade (skill level award) and job qualification (duty position certification) training.

**Phase I Initial Qualification Training (IQT).** An aircrew member engaged in training needed to qualify for basic aircrew duties in an assigned position for a specific aircraft, without regard for the unit's operational mission.

**Phase II Mission Qualification Training (MQT).** An aircrew member engaged in training needed to qualify in an assigned aircrew position to perform the command or unit operational mission.

**Phase III Continuation Training (CT).** An aircrew member engaged in training to maintain and develop a qualification required in Phase I or Phase II training. An aircrew member in Phase III training may be assigned Mission Ready (MR), Mission Capable (MC), or Basic Qualification (BQ) status.

**Qualification Training Package (QTP).** An instructional course designed for use at the unit to qualify, or aid qualification, in a duty position or program, or on a piece of equipment. It may be printed, computer based, or in other audiovisual media.

**Resource Constraints.** Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude desired training from being delivered.

**Specialty Training Standard (STS).** An Air Force publication that describes skills and knowledge that airman in a particular Air Force specialty need on the job, and identifies the training provided to achieve a 3-, 5-, and 7-skill level within an enlisted AFS. It further serves as a contract between AETC and the functional user to show which of the overall training requirements for an AFSC are taught in formal schools and correspondence courses.

**Standard.** An exact value, a physical entity, or abstract concept, established and defined by authority, custom, or common consent to serve as a reference, model, or rule in measuring quantities or qualities, establishing practices or procedures, or evaluating results. A fixed quantity or quality.

**Total Force.** The collective components (active, reserve, guard, and civilian elements) of the United States Air Force.

**Upgrade Training (UGT).** Training that leads to the award of a higher skill level in an AFS.

## ***Section A - General Information***

**1. Purpose.** This CFETP provides information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. The plan outlines the training that individuals must receive in order to develop and progress throughout their career. For the purpose of this plan, training is divided into four areas: initial skills, upgrade training (UGT), qualification training (QT), and continuation training (CT). Initial skills training is the Air Force Specialty specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion required for award of the 3-, 5-, 7-, and 9-skill levels. Qualification training is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills/knowledge training required for the job. Continuation training is additional training either in-residence or exportable advanced training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required. The CFETP has several purposes, some are:

- 1.1 Serves as a management tool to plan, manage, conduct, and evaluate a career field training program. Also, it is used to help supervisors identify training at the appropriate point in an individual's career.
- 1.2. Identifies task and knowledge training requirements for each skill level in this specialty and recommends education/training throughout each phase of an individual's career.
- 1.3. Lists training courses available in the specialty, identifies sources of training, and the training medium.
- 1.4. Identifies major resource constraints which impact full implementation of the desired career field training program.

**2. Uses.** The plan will be used by MFMs and supervisors at all levels to ensure a comprehensive and cohesive training programs are available and/or instituted for each individual in the specialty.

2.1. AETC training personnel will develop/revise formal resident, non-resident, field and exportable training based on requirements established by the user and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.

2.2. MFMs will ensure their training programs complement the CFETP mandatory initial and upgrade skills requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable courses. MAJCOM-developed training to support this AFSC must be identified for inclusion in this plan and must not duplicate available training resources

2.3. Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.

2.4. Qualification training packages (QTP) are developed by AETC, MAJCOM functional managers, and/or unit training managers. Unit developed QTPs will be provided to the parent MAJCOM and included in the CFETP.

2.5. Personnel in AFSC 1AXXX are exempt from maintaining OJT Training Folders (AF Form 623). All core tasks identified in this document are satisfied in IQT, MQT, and CT. That training is certified via AF Form 8 by trained instructors and evaluators. Certification of the Form 8 eliminates the requirement to document STS items in this CFETP.

**3. Coordination and Approval.** The AFCFM is approval authority. MAJCOM representatives and AETC training personnel will identify and coordinate on the career field training requirements. The AETC training manager for this specialty will initiate an annual review of this document by AETC and MFMs to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training. Applicable inputs/changes to this CFETP will be routed to the 362 TRS/TRR, 613 10th Avenue, Sheppard AFB, TX 76311-2352.

## ***Section B - Career Progression and Information***

### **4. Specialty Description.**

**4.1. Specialty Summary.** Accomplishes loading and offloading aircraft functions; performs preflight and postflight of aircraft and aircraft systems. Performs loadmaster aircrew functions, computes weight and balance, and other mission specific qualification duties. Provides for safety and comfort of passengers and troops, and security of cargo, mail, and baggage during flight. Conducts cargo and personnel airdrops. Supervises loadmaster activities and related functions, including aircraft loading and offloading activities, cargo handling, and restraint. Related DoD Occupational Subgroup: 050.

### **4.2. Duties and Responsibilities.**

**4.2.1.** Reviews aircraft weight and balance records and cargo manifest. Determines quantity of cargo and passengers or troops to be loaded and proper placement in aircraft. Computes load/cargo distribution, computes weight and balance, and determines the amount of weight to be placed in each compartment or at each station. Considers factors such as fuel load, aircraft structural limits, and emergency equipment required.

**4.2.2.** Accomplishes initial preflight of aircraft according to flight manuals; preflights specific aircraft systems such as restraint rail and airdrop equipment. Operates radios, preflights aerospace ground equipment, and applies external power to the aircraft. Performs inflight and special mission specific duties as required.

**4.2.3.** Supervises aircraft loading and offloading. Uses equipment such as 25K, 40K, and 60K loaders; forklifts; and winches. Ensures cargo and passengers are loaded according to load distribution plan. Directs application of restraint devices such as restraint rails, straps, chains, and nets to prevent shifting during flight. Checks cargo, passengers, and troops against manifests.

**4.2.4.** Ensures availability of fleet service equipment such as blankets and pillows. Signs for and stows in-flight meals. Briefs passengers and troops on use of seat belts, facilities, and border clearance requirements. Dispenses meals and refreshments. Demonstrates use of emergency equipment such as oxygen masks and life vests, and ensures access to escape hatches. Monitors cargo and passengers inflight and assists passengers as required.

**4.2.5.** Conducts cargo and personnel airdrops according to directives. Attaches extraction parachutes to cargo and platforms. Inspects cargo and platforms, extraction systems and connects static lines. Checks tiedowns, parachutes, containers, suspension systems, and extraction systems to ensure proper cargo extraction or release. Operates aircraft personnel airdrop system and supervises paratroopers exiting the aircraft.

**5. Skill/Career Progression.** Adequate training and timely progression from the apprentice to the superintendent skill level play an extremely important role in the Air Force's ability to accomplish its mission. Therefore, it is essential that everyone involved in training do their part to plan, develop, manage, conduct and evaluate an effective and efficient training program. The guidance provided in this part of the CFETP will ensure individuals receive viable training at appropriate points in their career. The following narrative and the AFSC 1A2X1 career field flow charts identify the training career path. They define the training required in an individual's career.

**5.1. Apprentice (3) Level.** Initial skills training in the aircraft loadmaster specialty consists of the task and knowledge training provided in the resident apprentice aircraft loadmaster course listed in the formal schools catalog. Task and knowledge training requirements are identified in STS 1A2X1, which is included in Part II, Section A, of this plan. In order to be awarded AFSC 1A231, an individual must complete the Apprentice Aircraft Loadmaster Course.

**5.2. Journeyman (5) Level.** Upgrade training to the 5-skill level in this AFSC requires completion of all mission ready training as indicated by the master task listing/objective hierarchy that is applicable to the trainee's weapon system assignment and completion of the 5-skill level Career Development Course (CDC). Additionally, the trainee must meet all requirements prescribed in the applicable MAJCOM aircrew training directives.

**5.3. Craftsman (7) Level.** Upgrade training to the 7-skill level in this specialty consist of completion of all 3- and 5-skill level training requirements and completion of training requirements listed in the applicable MAJCOM aircrew training directives. Qualification training is utilized based on the individual's training needs. Continuation training is available, but not limited to the training listed in Part II, Section E, of this plan.

**5.4. Superintendent (9) Level.** To be awarded AFSC 1A291, an individual must be a SMSgt or SMSgt selectee, complete the USAF Senior NCO Academy in-residence, and complete any other requirements specified in AFMAN 36-2108, *Military Classification Guidance*.

**6. Training Decisions.** The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Aircraft Loadmaster career field. This CFETP was developed to include life-cycle (day one through retirement) training requirements for this specialty. The spectrum includes a strategy for when, where, and how to meet the training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training. The following training decisions were made at the career field Utilization and Training Workshop held at Kirtland AFB, 6-8 August 1997.

**6.1. Initial Skills Training.** IAW AFMAN 36-2108, *Airmen Classifications*, one of the loadmaster's primary duties is to supervise the loading and offloading of aircraft cargo. The current 3-skill level course is knowledge and task performance. Students direct the loading and offloading of cargo by material handling equipment; load and offload rolling stock, powered and winch; and practice a variety of restraint activities.

**6.2. Five-Level Upgrade Training.** No formal changes.

**6.3. Seven-Level Upgrade Training.** No formal changes.

**6.4. Proficiency Training.** No formal changes.

**7. Community College of the Air Force.** Enrollment in CCAF occurs upon completion of basic military training. Off-duty education is a personal choice but is highly encouraged. CCAF provides the opportunity to obtain an Associates in Applied Sciences Degree. Contact the local education officer for more current course information. In addition to its associate degree program, CCAF offers the following:

**7.1. Occupational Instructor Certification.** Upon completion of instructor qualification training, consisting of the instructor methods course and supervised practice teaching, CCAF instructors who possess an associates degree or higher may be nominated by their school commander/commandant for certification as an occupational instructor.

**7.2. Trade Skill Certification.** When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.



**7.3. Degree Requirements.** All airmen are automatically entered into the CCAF program. The 5 skill level must be held at the time of program completion.

<b>Subject Area</b>	<b>Semester Hrs</b>
Technical Education	24
Leadership, Management, and Military Studies	6
Physical Education	4
General Education	15
Program Elective	15
Technical Education; Leadership, Management, and Military Studies or General Education	
<b>Total</b>	<b>64</b>

**7.3.1. Technical Education (24 Semester Hours):** A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective subjects/courses. Requests to substitute subjects/courses must be approved in advance by the Technical Branch at CCAF.

**7.3.1.1. Technical Core:**

<b>Subjects/Courses</b>	<b>Semester Hrs</b>
Air Cargo Procedures	6
Air Cargo Operation	6
Air Refueling/Armament	18
Air Transportation Principles	6
Aviation Safety	6
CCAF Internship	16
Flight Rules and Regulations	9
Introduction to Aviation/Aeronautics	6
Passenger Movements	3
Survival Training	6

**7.3.1.2. Technical Electives:**

<b>Subjects/Courses</b>	<b>Semester Hrs</b>
Air Force Enlisted Professional Military Education	12
Aircraft Systems Operations	6
Aviation Law	6
Climatology/Meteorology	6
Computer Science	6
FAA Airframe/Powerplant Certificate	6
Food and Beverage Preparation	6
Human Relations	6
Private Pilot's License	3
Radar Principles	3

**7.3.2. Leadership, Management, and Military Studies (6 Semester Hours):** Professional military education and/or civilian management courses.

**7.3.3. Physical Education (4 Semester Hours):** This requirement is satisfied by completion of Basic Military Training. PHE 1000.

**7.3.4. General Education (15 Semester Hours):** Applicable courses must meet the criteria for application of courses to the General Education Requirement (GER) and be in agreement with the definitions of applicable general education subject/courses as provided in the CCAF general catalog.

<b>Subject/Courses</b>	<b>Semester Hrs</b>
Oral Communication	3
Speech	
Written Communication	3
English Composition	

Mathematics	3
Intermediate algebra or college-level mathematics course is required	
If an acceptable mathematics course is applied as a Technical or Program Elective, a natural science course meeting GER application criteria may be applied as a General Education Requirement	
Social Science	3
Anthropology, Archaeology, Economics, Geography, Government, History, Political Science, Psychology, Sociology	
Humanities	3
Fine Arts (History, Criticism, and Appreciation), Foreign Language Literature, Philosophy, Religion	

7.3.6. **Program Elective** (15 Semester Hours): Satisfied with applicable technical education; leadership, management, and military studies; or general education subjects/courses, including natural science courses meeting GER application criteria and foreign language credit earned at the Defense Language Institute or through the Defense Language Proficiency Test. Six semester hours of CCAF degree-applicable technical credit otherwise not applicable to this program may be applied.

7.4. Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an Air Education and Training Command Instructor should be actively pursuing an associates degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools.

## 8. Career Field Flow Charts.

Figure 1. Enlisted Career Path

Figure 2. Loadmaster Career Path 1 of 4

Figure 3. Loadmaster Career Path 2 of 4

Figure 4. Loadmaster Career Path 3 of 4

Figure 5. Loadmaster Career Path 4 of 4

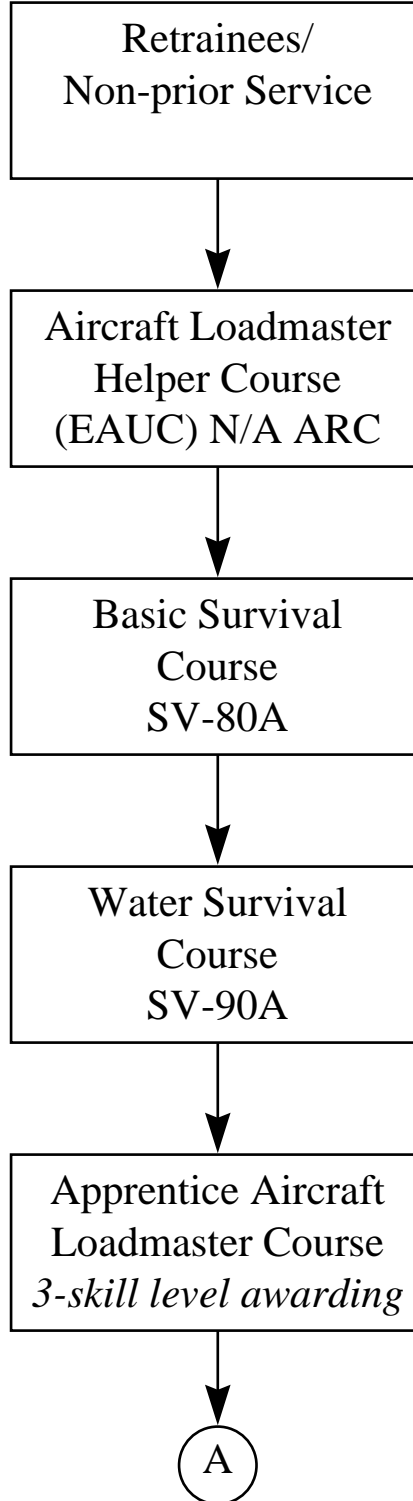
Figure 6. 1A2X1 Assignment Locations

### Enlisted Career Path

Education and Training Requirements	GRADE REQUIREMENTS			
	Rank	Earliest Sew-on	Air Force Average Sew-on	High Year of Tenure (HYT)
<b>Basic Military Training School</b>				
<b>Apprentice Technical School (3-Skill Level)</b>	Amn A1C		6 months 16 months	
<b>Upgrade To Journeyman (5-Skill Level)</b> - Complete 3 months apprenticeship period before beginning journeyman training. - Minimum 15 months on-the-job training. - Complete appropriate CDC.	SrA	28 months	3 years	10 years
<b>Airman Leadership School (ALS)</b> - Must be a SrA with 48 months time in service or be a SSgt selectee. - Resident graduation is a prerequisite for SSgt sew-on (Active Duty Only).				
<b>Upgrade To Craftsman (7-Skill Level)</b> - Minimum rank of SSgt select - 18 months OJT - Formal advanced skill training. - Must be 7-skill level for TSgt sew-on.	SSgt	3 years	7.5 years	20 years
<b>Noncommissioned Officer Academy (NCOA)</b> - Must be a TSgt or TSgt selectee. - Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only).	TSgt	5 years	12.5 years	20 years
	MSgt	8 years	16 years	24 years
<b>USAF Senior NCO Academy (SNCOA)</b> - Must be a SMSgt or SMSgt selectee. - Resident graduation is a prerequisite for CMSgt sew-on (Active Duty Only).	SMSgt	11 years	19.2 years	26 years
<b>Upgrade To Superintendent (9-Skill Level)</b> - Minimum rank of SMSgt. - Must be a resident graduate of SNCOA (Active Duty Only).	CMSgt	14 years	21.5 years	30 years

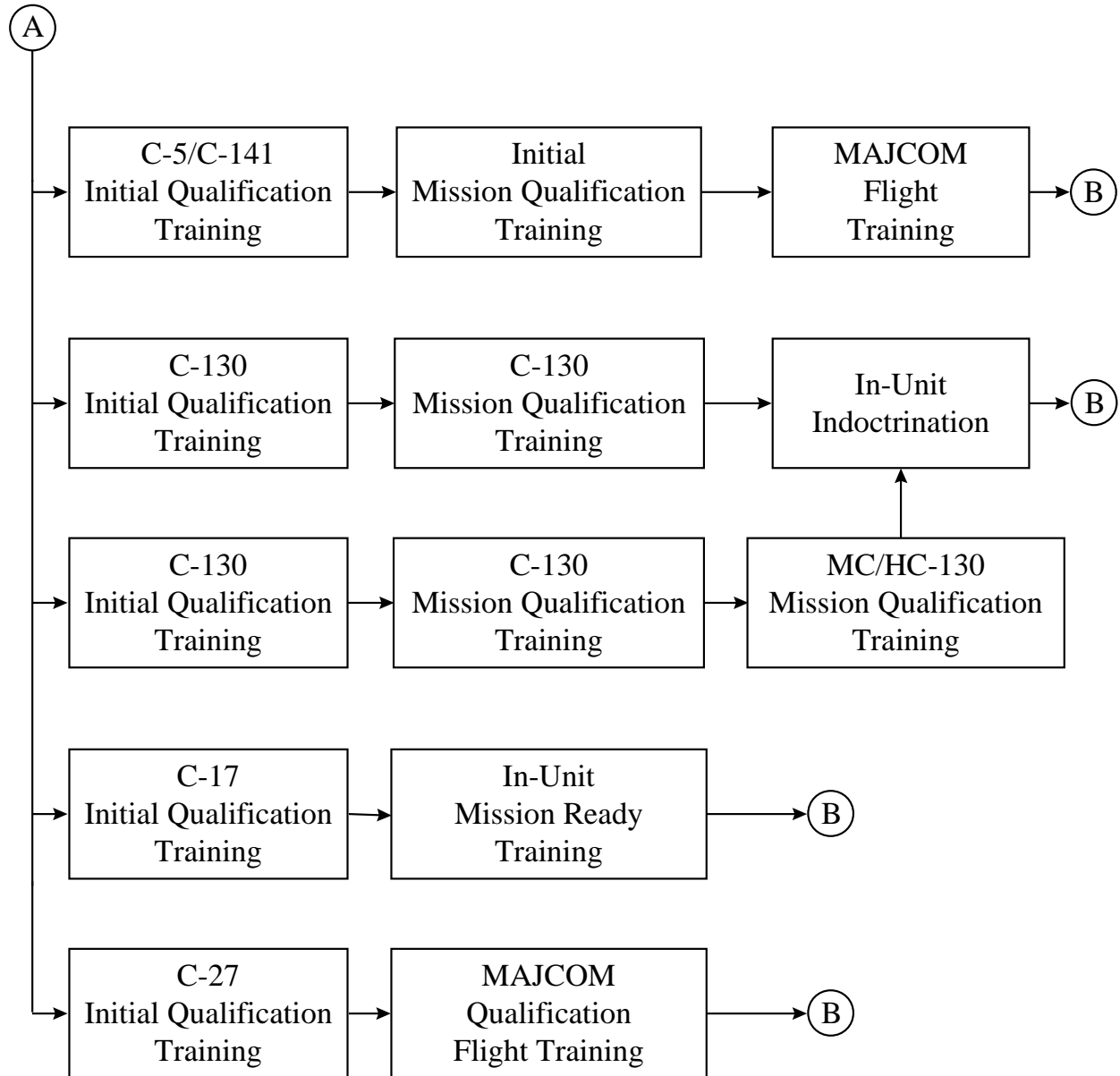
**Figure 1**

**Loadmaster Career Path 1 of 4**



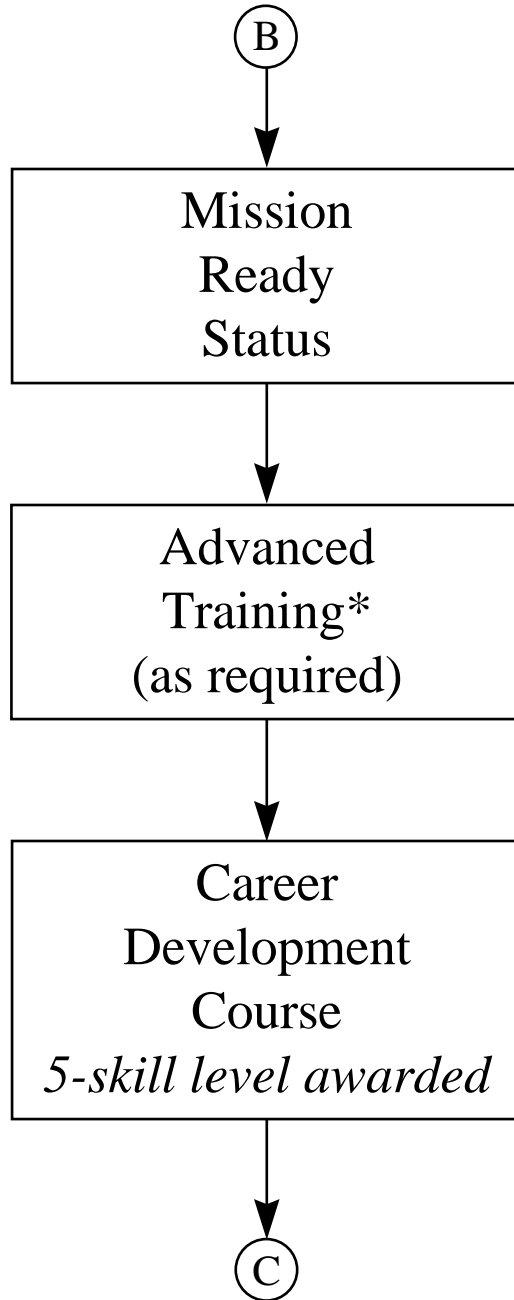
**Figure 2**

### Loadmaster Career Path 2 of 4



**Figure 3**

**Loadmaster Career Path 3 of 4**

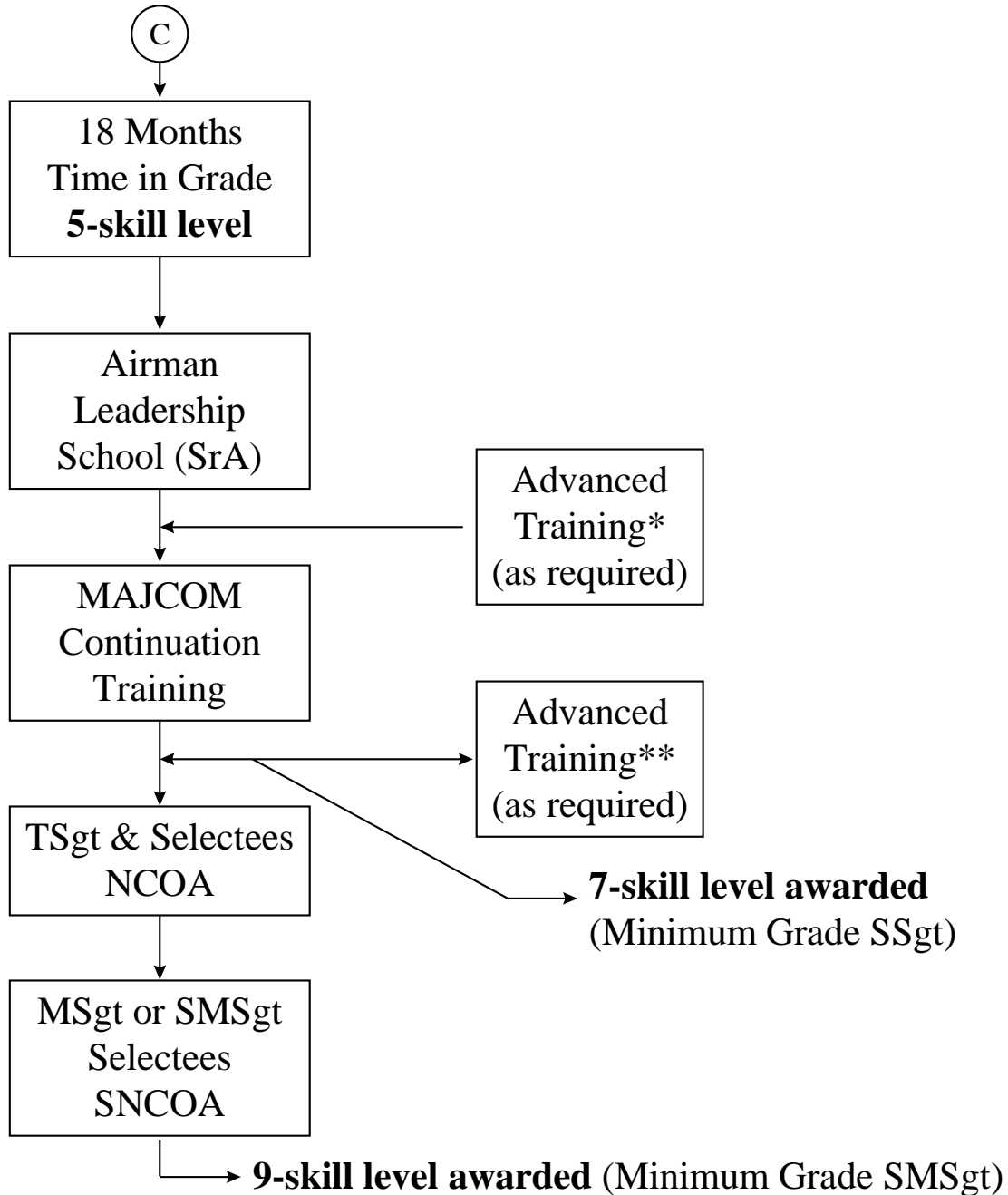


\*Advanced Training

1. C-141/C-5 Airdrop Qualification
2. Specialized Mission Qualification

**Figure 4**

# Loadmaster Career Path 4 of 4



\*Advanced Training

1. Instructor Upgrade Training
2. Joint Airdrop Inspector Course
3. TALCE Cadre Training

\*\*Advanced Training

1. Flight Test LM Training
2. C-23A Initial Qualif Training
3. Air Mobility Operations School
4. Evaluator Upgrade Training

Figure 5

### 1A2X1 Assignment Locations

Location	CMS	SMS	MSG	TSG	SSG	SRA	A1C	Student
Altus AFB OK	X	X	X	X	X	X		X
Barksdale AFB LA			X	X				
Charleston AFB SC	X	X	X	X	X	X	X	
Davis-Monthan AFB AZ		X		X				
Dover AFB DE	X	X	X	X	X	X	X	
Dyess AFB TX	X	X	X	X	X	X	X	
Edwards AFB CA	X	X		X	X			
Eglin AFB FL		X	X	X	X	X	X	
Elmendorf AFB AK		X	X	X	X	X	X	
Ft Bragg NC		X	X	X				
Ft Dix NJ	X		X					
Ft Lee VA			X	X				
Geilenkirchen AB GER						X		
Greenville TX			X					
Hickam AFB HI	X							
Hill AFB UT		X						
Howard AB PAN			X	X	X	X	X	
Hurlburt Fld FL	X	X	X	X	X	X	X	
Kadena AB JPN	X	X	X	X	X	X	X	
Kirtland AFB NM	X	X	X	X	X	X		
Kuwait City KUW			X					
Langley AFB VA	X		X					
Little Rock AFB AR	X	X	X	X	X	X	X	X
Long Beach CA			X	X				
Marietta GA				X				
McChord AFB WA	X	X	X	X	X	X	X	
McGuire AFB NJ	X	X	X	X	X	X	X	
RAF Mildenhall UK	X	X	X	X	X	X	X	
Moody AFB GA		X	X	X	X	X	X	
Mt. Home AFB ID		X	X					
Maxwell AFB AL			X	X				
Natic Lab MA		X						
Pope AFB NC	X	X	X	X	X	X	X	
Ramstein AB GER	X	X	X	X	X	X	X	
Randolph AFB TX	X	X	X					
Scott AFB IL	X	X	X	X				
Shaw AFB SC		X	X					
Sheppard AFB TX			X		X	X		
Travis AFB CA	X	X	X	X	X	X	X	
Wright-Patterson AFB OH	X		X					
Yokota AB JPN		X	X	X	X	X	X	
Yuma AZ			X					

**Figure 6**



## ***Section C - Skill Level Training Requirements***

**9. Purpose.** Skill level training requirements in this career field are defined in terms of tasks and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in broad, general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific task and knowledge training requirements are identified in the STS at Part II, Sections A and B of this CFETP.

### **10. Specialty Qualifications:**

#### **10.1. Apprentice Level Training:**

##### **10.1.1. Specialty Qualification.**

**10.1.1.1. Knowledge.** Knowledge is mandatory of: types, capacities, and configuration of transport aircraft; arithmetic; emergency equipment and in-flight emergency procedures; personal equipment and oxygen use; communications; current flying directives; interpreting diagrams, loading charts, and technical publications; border agency clearance dispensing and preserving food aboard aircraft; and cargo restraint techniques.

**10.1.1.2. Education.** For entry into this AFSC, completion of high school education with courses in mathematics or general science is desirable. A minimum score of 55 is required on the General portion of the AQE.

**10.1.1.3. Training.** Completion of the EAUC-Aircraft Loadmaster Helper (J3AQR1A211 000) at Sheppard AFB Texas is mandatory for pipeline and non-aviation service cross training students. Completion of the Aircraft Loadmaster Apprentice course is mandatory for award of the AFSC 1A231.

**10.1.1.4. Other.** The following are mandatory as indicated:

**10.1.1.4.1.** For entry, award, and retention of the AFSC:

**10.1.1.4.1.1.** Physical qualification for aircrew duty according to AFMAN 48-123, *Class III Medical Standards*.

**10.1.1.4.1.2.** Qualification for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

**10.1.1.4.2.** For award and retention of AFSC 1A231, eligibility for a secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

**10.1.2. Training Sources and Resources.** Refer to Part II, Section D, Training Course Index.

#### **10.2. Journeyman Level Training:**

**10.2.1. Specialty Qualification.** Qualification in and possession of AFSC 1A231.

**10.2.1.1. Knowledge.** Types, capacities, and configuration of transport aircraft; arithmetic; weight and balance factors; cargo restraint techniques; emergency equipment and in-flight emergency procedures; using personal equipment and oxygen, communications; current flying directives; interpreting diagrams, loading charts, and applicable technical publications; border agency clearance requirements and forms; principles of dispensing and preserving food aboard aircraft; operation of cargo loading equipment; and cargo and personnel airdrop techniques and equipment.

**10.2.1.2. Education.** No additional requirements for entry into this skill level.

**10.2.1.3. Training.** Completion of the following training is mandatory for the award of the 5-skill level:

10.2.1.3.1. Completion of the 5-skill level CDC.

10.2.1.3.2. Completion of the resident and informal training for the assigned weapon system.

10.2.1.3.3. Training must meet core task requirements established in the STS.

10.2.1.4. **Experience.** Minimum 15 months on-the-job training.

10.2.1.5. **Other.** The following are mandatory as indicated:

10.2.1.5.1. For entry, award, and retention of the AFSC:

10.2.1.5.1.1. Physical qualification for aircrew duty according to AFMAN 48-123, *Class III Medical Standards*.

10.2.1.5.1.2. Qualification for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

10.2.1.5.2. For award and retention of AFSC 1A251, eligibility for a secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

10.2.2. **Training Sources and Resources.** Refer to Part II, Section D, Training Course Index.

10.2.3. **Implementation.** Entry into upgrade training is initiated when an individual possesses the 3-skill level. Qualification training is initiated anytime an individual is assigned duties they are not qualified to perform. CDC 1A251 and QTPs will be completed to be awarded the 5-skill level.

### 10.3. **Craftsman Level Training:**

10.3.1. **Specialty Qualification.** Qualification in and possession of AFSC 1A251.

10.3.1.1. **Knowledge.** In addition to the 5-skill level and other qualifications as listed above, an individual must possess the knowledge and skills necessary to supervise personnel.

10.3.1.2. **Education.** To assume the grade of SSgt and MSgt, individuals must be graduates of the Airman Leadership School (ALS) and NCO Academy, respectively.

10.3.1.3. **Training.** The CSAF has approved a variance eliminating the requirement for in-residence, 7-skill level, training for all 1AXXX (Air Operations career field personnel).

10.3.1.4. **Experience.** SSgt selectee with a minimum 18 months on-the-job training.

10.3.1.5. **Other.** The following are mandatory as indicated:

10.3.1.5.1. For entry, award, and retention of the AFSC:

10.3.1.5.1.1. Physical qualification for aircrew duty according to AFMAN 48-123, *Class III Medical Standards*.

10.3.1.5.1.2. Qualification for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

10.3.1.5.2. For award and retention of AFSC 1A271, eligibility for a secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

10.3.2. **Training Sources and Resources.** Refer to Part II, Section D, Training Course Index.

10.3.3. **Implementation.** Entry into upgrade training is initiated when an individual possesses the 5-skill level and is in the grade of SSgt. Qualification training is initiated anytime an individual is assigned duties they are not qualified to perform. All QTPs will be completed to be awarded the 7-skill level.

#### 10.4. **Superintendent Level Training:**

10.4.1. **Specialty Qualification.** Qualification in and possession of AFSC 1A271.

10.4.1.1. **Knowledge.** In addition to the 7-skill level qualification, the 9-skill level individual must be an effective leader of personnel and manager of assigned resources. Completion of qualification criteria in currently assigned aircraft is mandatory.

10.4.1.2. **Education.** Resident graduate (active duty only) of Senior Non-Commissioned Officer Academy (SNCOA) or sister service equivalent. Completion of CCAF degree is desired.

10.4.1.3. **Training.** Continuation Training courses are available and attendance should be used based on the individual's training needs

10.4.1.4. **Experience.** Minimum rank SMSgt. Experience in supervisory position is desired.

10.4.1.5. **Other.** The following are mandatory as indicated:

10.4.1.5.1. For entry, award, and retention of the AFSC:

10.4.1.5.1.1. Physical qualification for aircrew duty according to AFMAN 48-123, *Class III Medical Standards*.

10.4.1.5.1.2. Qualification for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

10.4.1.5.2. For award and retention of AFSC 1A291, eligibility for a secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

10.4.2. **Training Sources and Resources.** Refer to Part II, Section D, Training Course Index.

10.4.3. **Implementation.** Entry into upgrade training is initiated when an individual possesses the 7-skill level and is in the grade of SMSgt. Qualification training is initiated anytime an individual is assigned duties they are not qualified to perform. All QTPs will be completed to be awarded the 9-skill level.

#### **Section D - Resource Constraints**

**11. Purpose.** This section identifies known resource constraints which preclude optimal/desired training from being developed or conducted, including information such as cost and manpower. Narrative explanations of each resource constraint and an impact statement describing what effect each constraint has on training are included. Also included in this section are actions required, office of primary responsibility, are target completion dates. Resource constraints will be reviewed and updated at least annually.

#### **12. Apprentice Level Training:**

12.1. **Constraint.** The existing 3-level course, J3ABR1A231 004, requires students to perform common apprentice loadmaster tasks (i.e., load and offload cargo, apply restraint, etc.) Course is co-utilizing a C-141 with an average ramp incline of 15 degrees. Generic self-propelled vehicle (1/4 ton commercial pickup) is being utilized which involves multiple re-attempts to drive into and out of the aircraft due to incline of ramp and situational/weather hazards.

12.1.1. **Impact.** Graduates do not perform tasks on vehicle most commonly used in this task. Current vehicle is not providing realistic training.

12.1.2. **Resources Required.** High Mobility Multipurpose Wheeled Vehicle (HMMWV)(self-propelled, 4-wheel drive) and vehicle maintenance funding.

12.1.2.1. A commercial design general purpose vehicle can be used to satisfy training element(s) in the Specialty Training Standard (STS) without creating training deficiencies. This work-around will be used until 3-level school receives a HMMWV.

12.1.3. **Action Required.** AF Form 601, submitted by 362 TRS/RMT, approved by 82 LG, April 1997, will be approved at AETC/LGTV upon receipt of a letter from HQ USAF/XOOT specifically stating that the 3-level Loadmaster course at Sheppard AFB TX requires a HMMWV to accomplish training elements identified in the STS or upon receipt of CFETP change.

12.1.4. **OPR/Target Completion Date.** HQ USAF/XOOT, Completed 4 Nov 97.

### **13. Journeyman Level Training.**

13.1. **Constraint.** Altus AFB OK, C-141 Loadmaster Initial Qualification (Second Loadmaster program modification), C-141 LIQ, and C-17 Loadmaster Airdrop Qualification course (C-17 LAD) have requirements for additional material handling equipment (MHE). The C-141 LIQ course has been modified to qualify a student loadmaster to C-141 Second Loadmaster. This loadmaster will be able to perform 80% of all C-141 loadmaster duties without the aid of an instructor. Additional ground training in the classroom and on two C-141 loadmaster training devices (aircraft fuselages) plus flying training will lead to a checkride with an AF Form 8 to Second Loadmaster qualification. MHE was planned for this program modification. The C-17 LAD course was accepted by AETC, but no MHE was transferred from AMC to support the flying portion of this course. A bottom-up review of all Altus MHE identified the required MHE (based on training events derived from the HQ AETC Airlift/Tanker programmed flying training document) was accomplished to determine the amount of vehicles to complete all training based on a daily and monthly worst-case usage scenario. Typically, AMC determines MHE based on tonnage; however, our MHE needs are based on training events.

13.1.2. **Impact.** Without the additional MHE, Altus will not be able to support the C-141 LIQ and C-17 LAD courses. Graduates will not be able to load cargo due to lack of MHE to support the training mission.

13.1.3. **Resources Required.** Additional six 40K (or 60K) loaders, one 25K loader, one All Terrain forklift, and one 10K forklift.

13.1.4. **Action Required.** A staff package (with AF Form 601s) approved by 97 LG/CC was forwarded to HQ AETC/LGTV to authorize the required MHE. The package was forwarded to HQ USAF/XOOT for coordination/validation and forwarded to HQ USAF/IL for approval and redirection of assets from a losing command. AETC doesn't have the assets to move to Altus. After authorizations are established, other MAJCOMs will have to provide the MHE transfer on an on-loan or permanent basis.

13.2. **Constraint.** C-5, Altus AFB, requires a Loadmaster Ground Training Device. Lack of available ground trainers are impacting the graduation date of students by as much as three weeks. Even with an adequate number of trainers (aircraft), students are not exposed to realistic loading exercises due to an inadequate cargo load trainer.

13.2.1. **Impact.** Students are graduating up to three weeks late and are graduating with inadequate cargo loading skills.

13.2.2. **Resources Required.** C-5 Loadmaster Ground Training Device

13.2.3. **Action Required.** A study has been prepared on the minimum requirements for a cargo load trainer. This package has been forwarded to AMC through AETC channels. Resolution is required.

**14. Craftsman Level Training:** None identified.

## Part II

### ***Section A - Specialty Training Standard***

**1. Implementation.** This STS will be used for technical training provided by AETC for classes beginning **980601** and graduating **980629**.

**2. Purpose.** As prescribed in AFI 36-2201, this STS:

2.1. Lists in column 1 (Task, Knowledge, and Technical Reference) the most common tasks, knowledge, and technical references (TR) necessary for airmen to perform duties at the 3-, 5-, and 7-skill level AFSC in the Aircraft Loadmaster Specialty ladder of the Aircrew Operation Career Field. These are based on an analysis of the duties in AFMAN 36-2108. Items in column 1 with an asterisk (\*) are the tasks/knowledge items that are trained in the resident wartime course. Column 2 (Core Tasks) identifies, by asterisk (\*), specialty-wide training requirements. NOTE: Core task is minimum qualification training required for upgrade to the 5-skill level, but only pertain to or are a function of the work center assigned.

2.2. Shows formal training and correspondence course requirements. Column 3 shows the proficiency to be demonstrated on the job by the graduate as a result of training (in course J3ABR1A231 004-PDS Code 0HO-described in AFCAT 36-2223) and the career knowledge provided by the correspondence course. There is no advanced course. See ECI/AFSC/CDC listing maintained by the unit OJT manager for current CDC listings.

2.3. Provides certification for OJT. Column 4 is used to record completion of task and knowledge training requirements. Certification is accomplished as outlined in AFI 36-2201.

**2.4. Qualitative Requirements.** Attachment 1 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.

2.5. Becomes a job qualification standard (JQS) for on-the-job training and used according to AFI 36-2201. For OJT, the tasks in column 1 are trained and qualified to the go/no go level. Go means the individual can perform the task without assistance and meets local requirements for accuracy, timeliness, and correct use of procedures.

2.6. Is a guide for development of promotion tests used in the Weighted Airmen Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron by senior NCOs with extensive practical experience in their career fields. The tests sample knowledge of STS subject matter areas judged by test development team members to be most appropriate for promotion to higher grades. Questions are based on the loadmaster career development course (CDC). Individual responsibilities are in AFI 36-2606.

**3. Recommendations.** Report unsatisfactory performance of individual course graduates to 362 TRS/TRR, 613 Tenth Avenue, Sheppard AFB, TX 76311-2352. Reference specific STS paragraphs. A customer service information line has been installed for the supervisor's convenience to identify graduates who may have received over or under training on task/ knowledge items listed in this training standard. For quick response to problems, call our customer service information line, Defense Switch Network (DSN) 736-5236, anytime day or night.

BY ORDER OF THE SECRETARY OF THE AIR FORCE  
OFFICIAL

Attachment:  
Qualitative Requirements

<i>THIS BLOCK FOR IDENTIFICATION PURPOSES ONLY</i>		
NAME OF TRAINEE		
PRINTED NAME (Last, First Middle Initial)	INITIALS (Written)	SSAN
PRINTED NAME OF CERTIFYING OFFICIAL AND WRITTEN INITIALS		
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	
N/I	N/I	

### QUALITATIVE REQUIREMENTS

PROFICIENCY CODE KEY		
	SCALE VALUE	DEFINITION: The Individual
TASK PERFORMANCE LEVELS	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (EXTREMELY LIMITED)
	2	Can do most parts of the task. Needs help only on hardest parts. (PARTIALLY PROFICIENT)
	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT)
*TASK KNOWLEDGE LEVELS	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)
	b	Can determine step by step procedures for doing the task. (PROCEDURES)
	c	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
	d	Can predict, isolate, and resolve problems about the task. (ADVANCED THEORY)
**SUBJECT KNOWLEDGE LEVELS	A	Can identify basic facts and terms about the subject. (FACTS)
	B	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)
	C	Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)
EXPLANATIONS		
<p>* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Examples: b and 1b)</p> <p>** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.</p> <p>- This mark is used alone instead of a scale value to show that no proficiency training is provided in the course or CDC.</p> <p>x This mark is used alone in course columns to show that training is required but not given due to limitations in resources.</p>		

Attachment 1

Users are responsible for annotating training references (TR) to identify current references pending STS revision

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Task	3. Proficiency codes used to indicate training / information provided					4. CERTIFICATION OF OJT			
		A 3-Skill Level		B 5-Skill Level		C 7-Skill Level	A	B	C	D
		(1) CRS	(2) CDC	(1) CRS	(2) CDC	(1) OJT	Start Date	Comp Date	Certify Official's Initials	Trainee's Initials
1. CAREER LADDER PROGRESSION TR: AFMAN 36-2108, AFI 36-2104; AFI 11-401										
* 1.1. Air Operations Career Field	*	A	-		B					
* 1.2. Duties of Aircraft Loadmaster Apprentice and Journeyman	*	B	-		B					
* 1.3. Duties of Aircraft Loadmaster Craftsman	*	A	-		B					
* 1.4. Duties of Aircraft Loadmaster Superintendent	*	A	-		B					
1.5. Duties of Instructor Loadmaster		-	-		A					
1.6. Duties of Flight Examiner Loadmaster		-	-		A					
2. SECURITY TR: DODR 5200.1; AFI 13-207, 10-1101, 31-401										
* 2.1. Classification of Communication Security Information (COMSEC)	*	A	-		B					
* 2.2. Prevention of Security Violations (Non-Technical)	*	A	-		B					
* 2.3. Specific OPSEC Vulnerabilities of AFSC 1A2X1	*	A	-		B					
2.4. Aircraft Security	*	-	-		-					
* 3. PUBLICATIONS TR: AFI 37-160, Vol 7; DODR 4500-32, Vol 1										
3.1. Locate Information in Technical Orders and Standard Publications Applicable to Loadmaster Functions	*	2b	-		c					
3.2. Update and Post Changes to Technical Orders and Standard Publications Applicable to Loadmaster Functions	*	2b	-		c					
3.3. Use of Applicable Forms	*	2b	-		c					
3.4. Flight Crew Information Publications	*	A	-		A					
4. LOADMASTER PREDEPARTURE FUNCTIONS TR: Applicable MAJCOM Aircraft Instruction										
4.1. Mission Preparation/Planning	*	-	-		-					
4.2. Mission Briefings	*	-	-		-					
4.3. Professional Equipment	*	-	-		B					
5. MISSION EQUIPMENT TR: 1C-XXX-1; MAJCOM Configuration Instruction										
* 5.1. Fleet Service Equipment	*	A	-		B					
* 5.2. Emergency Equipment	*	A	-		B					
5.3. Aerospace Ground Equipment	*	-	-		-					
5.4. Aircraft Computer		-	-		-					

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Task	3. Proficiency codes used to indicate training / information provided					4. CERTIFICATION OF OJT			
		A 3-Skill Level		B 5-Skill Level		C 7-Skill Level	A	B	C	D
		(1) CRS	(2) CDC	(1) CRS	(2) CDC	(1) OJT	Start Date	Comp Date	Certify Official's Initials	Trainee's Initials
6. AIRCRAFT SYSTEMS TR: 1C-XXX-1										
6.1. Oxygen	*	-	-		-					
6.2. Hydraulic	*	-	-		-					
6.3. Electrical	*	-	-		-					
6.4. Communications	*	-	-		-					
6.6. Fueling/Refueling		-	-		-					
6.7. Environmental		-	-		-					
6.8. Air Defense Systems		-	-		-					
* 7. AIRCRAFT WEIGHT AND BALANCE TR: TOs 1C-XXX-9; 1-1B-40; 1-1B-50										
7.1. Aircraft Weight and Balance Records	*	A	-		B					
7.2. Compute Load Distribution	*	2b	-		c					
7.3. Record Load Distribution on DD 365-4	*	2b	-		c					
* 8. LOADING AND OFFLOADING TR: TOs 1C-XXX-1; 1C-XXX-9; AFOSH 127-66; DODR 4500-32, Vol 1										
8.1. Compute PSI and Shoring Requirements	*	2b	-		c					
8.2. Direct Loading and Offloading of Cargo by 463L Forklift Material Handling Equipment	*	2b	-		c					
8.3. Direct Loading and Offloading of Cargo by K-Loader Material Handling Equipment	*	2b	-		c					
8.4. Direct Loading and Offloading of Self-Propelled Vehicle	*	2b	-		c					
8.5. Cargo Loading Aids	*	A	-		B					
8.6. <i>Reserved for Future Use</i>										
8.7. Comply with Safety Directives Applicable to Air Transportation of Cargo	*	2b	-		c					
8.8. Compute Restraint Criteria	*	2b	-		c					
8.9. Secure Cargo Using Tiedown Equipment	*	2b	-		c					
8.10. Inspect Cargo	*	2b	-		c					
8.11. Preflight/Postflight Checklist Procedures	*	A	-		B					
8.12. Check Cargo Documentation	*	2b	-		c					



1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Task	3. Proficiency codes used to indicate training / information provided					4. CERTIFICATION OF OJT			
		A 3-Skill Level		B 5-Skill Level		C 7-Skill Level	A	B	C	D
		(1) CRS	(2) CDC	(1) CRS	(2) CDC	(1) OJT	Start Date	Comp Date	Certify Official's Initials	Trainee's Initials
* 9. AIR TRANSPORTATION OF HAZARDOUS MATERIALS TR: AFJMAN 24-204; AFJI 11-204; AFMAN 91-201										
9.1. Apply Special Safety Procedures in Handling Hazardous Materials	*	b	-		c					
9.2. Verify DOT Classification/Division of Hazardous Materials	*	2b	-		c					
9.3. Determine Suitability and Segregation/Compatibility of Hazardous Materials to be Loaded	*	2b	-		c					
9.4. Hazardous Material Markings	*	B	-		c					
9.5. Demonstrate Proper Safety Precautions Associated with Hazardous Material	*	2b	-		c					
* 10. PASSENGER/TROOP REQUIREMENTS TR: TOs 1C-XXX-1CL-X, 1C-XXX-9; AMCI 24-101, Vol 14; Applicable MAJCOM Aircraft Instructions										
10.1. Customer Relations	*	B	-		B					
10.2. Dispense Meals, Refreshment, and Comfort Items	*	A	-		B					
10.3. Brief Passengers/Troops	*	1a	-		B					
10.4. Border Clearance Requirements	*	1a	-		B					
* 11. AIRCRAFT EMERGENCY PROCEDURES TR: TOs 1C-XXX-1; 1C-XXX-9										
11.1. Inflight Emergencies	*	A	-		-					
11.2. Ground Emergencies	*	A	-		-					
12. AIRDROP TR: TOs 1C-XXX-9, 13C7-1-5, 13C7-1-11; AFJI 13-210										
* 12.1. Principles of Airdrop		A	-		B					
12.2. Airdrop Equipment/Personnel		-	-		B					
12.3. Airdrop Load Inspection		-	-		B					
12.4. Joint Airdrop Inspection		-	-		B					
12.5. Airdrop Emergency Procedures		-	-		-					
13. TANKER AIRLIFT CONTROL ELEMENT TR: AFI 10-221, Vol IV										
* 13.1. Functions of TALCE		A	-		B					
13.2. Responsibilities of the TALCE		-	-		B					
13.3. Loadmaster Responsibilities Applicable to TALCE		-	-		B					

1. TASKS, KNOWLEDGE AND TECHNICAL REFERENCES	2. Core Task	3. Proficiency codes used to indicate training / information provided					4. CERTIFICATION OF OJT			
		A 3-Skill Level		B 5-Skill Level		C 7-Skill Level	A	B	C	D
		(1) CRS	(2) CDC	(1) CRS	(2) CDC	(1) OJT	Start Date	Comp Date	Certify Official's Initials	Trainee's Initials
14. Cockpit/Crew Resource Management (CRM) TR: AFI 36-2243	*	-	-		-					
15. Perform Periodic Cargo Inspection Inflight TR: TO 1C-XXX-1	*	-	-		-					
<b>Summary of Changes</b>										
Addition of elements on crew resource management, aerospace ground equipment, aircraft computers, and aircraft security as core tasks.										

## ***Section B - Course Objective List***

**4. Measurement.** Each objective is indicated as follows: **W** indicates task or subject knowledge which is measured using a written test, **PC** indicates required task performance which is measured with a performance progress check, and **PC/W** indicates separate measurement of both knowledge and performance elements using a written test and a performance progress check.

**5. Standard.** The standard is 80% on written examinations. Standards for performance measurement are indicated in the objective and delineated on the individual progress checklist. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or part of the behavior until satisfactory performance is attained.

**6. Proficiency Level.** Most task performance is taught to the “2b” proficiency level which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step-by-step procedures for doing the task.

**7. Course Objective.** These objectives are listed in the sequence taught by block of instruction. Underlined STS elements show where the training is closed-out for the level indicated.

### **7.1. Initial Skills Course:**

#### **7.1.1. Block I. Military Air Transportation**

7.1.1.1. 2a. Given information pertaining to security, identify items necessary to prevent communications security violations with at least 80 percent accuracy. STS: 2.1, 2.2; Measure: PC, W

7.1.1.2. 2b. Given information pertaining to AFSC 1A2X1 operations, identify situations jeopardizing national security with at least 80 percent accuracy. STS: 2.3; Measure: PC, W

7.1.1.3. 3a. Using given information, identify facts concerning the Airman Aircrew Operations Career Field, loadmaster aircrew duties, and positions of the career ladder with at least 80 percent accuracy. STS: 1.1, 1.2, 1.3, 1.4, 10.4; Measure: PC, W

7.1.1.4. 4a. Given customer handling information, identify the most appropriate action to ensure good customer relations with at least 80 percent accuracy. STS: 5.1, 5.2, 10.1, 10.2, 10.3, 11.1, 11.2; Measure: PC, W

7.1.1.5. 5a. Using extracts of Air Force Publications, locate specified information with at least 80% accuracy. STS: 3.1, 3.4; Measure: PC, W

7.1.1.6. 5b. Given extracts of Air Force Publications, update and post changes with at least 80 percent accuracy. STS: 3.2; Measure: PC, W

7.1.1.7. 6a. Using appropriate guidance, identify special safety procedures in handling hazardous materials with at least 80 percent accuracy. STS: 9.1, 9.4, 9.5; Measure: PC, W

7.1.1.8. 6b. Using appropriate guidance, verify the hazard class and suitability/compatibility of hazardous material with at least 80 percent accuracy. STS: 3.3, 9.2, 9.3; Measure: PC, W

#### **7.1.2. Block II. Introduction to Weight and Balance**

7.1.2.1. 1a. Given the basic weight, arm, and moment (WAM) formula, compute the basic weight, arm, and moment with at least 80 percent accuracy. STS: 7.2; Measure: PC, W

7.1.2.2. 2a. Given the weight, arm, and moment for aircraft weight and balance, compute weight, center of gravity arm, and aircraft moments with at least 80 percent accuracy. STS: 7.2; Measure: PC, W

7.1.2.3. 3a. Using the Percent of MAC and/or the center of gravity arm formula(s), compute the aircraft center of balance with at least 80 percent accuracy. STS: 7.2; Measure: PC, W

7.1.2.4. 4a. Using the necessary formulas, compute the aircraft moments, CGA, and/or percent of MAC (after adding and/or removing cargo) with at least 80 percent accuracy. STS: 7.2; Measure: PC, W

7.1.2.5. 5a. Given the loadshift formula, compute the aircraft gross weight (AGW), loadshift arm (LSA), center of gravity change (CGC), and/or loadshift weight (LSW) with at least 80 percent accuracy. STS: 7.2; Measure: PC, W

### 7.1.3. **Block III.** Weight and Balance

7.1.3.1. 1a. Given situations typical of Aircraft Loadmaster activities, state the correct safety precautions to be followed with at least 80 percent accuracy. STS: 8.7, 11.1, 11.2; Measure: PC, W

7.1.3.2. 2a. Using the hand-held calculator, compute, to the nearest whole inch, the vehicle's center of gravity with at least 80 percent accuracy. STS: 8.10; Measure: PC, W

7.1.3.3. 3a. Given cargo weight and dimensions, compute the PSI and shoring requirements with at least 80 percent accuracy. STS: 8.1; Measure: PC, W

7.1.3.4. 4a. Given cargo weights, determine the type and quantity of tiedown devices required with at least 80 percent accuracy. STS: 8.8; Measure: PC, W

### 7.1.4. **Block IV.** Introduction to Load Planning

7.1.4.1. 1a. Use Chart "E" and AMCR 55-4 extracts and math to compute weight and balance information with at least 80 percent accuracy. STS: 7.1, 7.2, 7.3; Measure: PC, W

7.1.4.2. 2a. Given airdrop information, identify the types and methods with at least 80 percent accuracy. STS: 12.1; Measure: PC, W

7.1.4.3. 3a. Using required load data, Chart "E" and AMCR 55-4 extracts, and math computations, complete a Weight and Balance Clearance Form "F" with at least 80 percent accuracy. STS: 3.3, 7.1, 7.2, 7.3; Measure: PC, W

7.1.4.4. 4a. Given a palletized load breakdown, preplan the load for an aircraft to within plus or minus five moments of the desired load moment (DLM). STS: 3.3, 7.1, 7.2, 7.3, 13.1; Measure: PC, W

### 7.1.5. **Block V.** Concentrated Load Planning and Loading

7.1.5.1. 1a. Given various items of cargo, preplan a load of concentrated cargo for an aircraft to within plus or minus three moments of the Desired Load Moment (DLM). STS: 7.1, 7.2, 7.3; Measure: PC, W

7.1.5.2. 2a. Given vehicle marshaling information, identify correct safety procedures and hand signals with at least 80 percent accuracy. STS: 8.2, 8.3, 8.4 Measure: PC, W

7.1.5.3. 2b. Given cargo and restraint devices, apply correct restraint with no more than two instructor assists. STS: 8.8, 8.9 Measure: PC, W

7.1.5.4. 3a. Given extracts of TO 1C-141B-1 and TO 1C-141B-9, perform a preflight/operational checkout of the aircraft loading systems with no more than four instructor assists. STS: 8.5, 8.11; Measure: PC, W

7.1.5.5. 3b. Using the general loading checklist, complete a loading/unloading with no more than four instructor assists. STS: 8.2, 8.3, 8.4, 8.5, 8.7, 8.8, 8.9, 8.10, 8.11, 8.12; Measure: PC, W

## 7.2. Advanced Skills Course:

**NOTE:** There is currently no advanced course. This area is reserved.

## Section C - Support Material

**NOTE:** There are currently no support material requirements. This area is reserved.

## Section D - Training Course Index

**9. Purpose.** This section of the CFETP identifies training courses available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs.

### 10. Air Force In-Residence Courses.

COURSE NUMBER	COURSE TITLE	LOCATION
J3AQR1A211 000	EAUC - Aircraft Loadmaster Helper	Sheppard AFB
J3ABR1A231 004	Aircraft Loadmaster Apprentice	Sheppard AFB
ANG BLM	Air National Guard Basic Loadmaster	Little Rock AFB
C141LIQ	C-141 Loadmaster Initial Qualification	Altus AFB
C5LIQ	C-5 Loadmaster Initial Qualification	Altus AFB
C17LIQ	C-17 Loadmaster Initial Qualification	Altus AFB
C130LIQ	Loadmaster Initial Qualification	Little Rock AFB
S-V80-A	Combat Survival Training	Fairchild AFB
S-V90-A	Water Survival Training (non-parachuting)	Fairchild AFB

### 11. Advanced Training.

COURSE NUMBER	COURSE TITLE	LOCATION
C141LAD	C-141 Loadmaster Airdrop Qualification	Altus AFB
C17LAD	C-17 Loadmaster Airdrop	Altus AFB
C17ILM	C-17 Instructor Loadmaster	Altus AFB
C130LMQ	Loadmaster Mission Qualification	Little Rock AFB
C130LIN	C130 Loadmaster Instructor School	Little Rock AFB
MC130PLMMQ	MC-130P Loadmaster Mission Qualification (SOF)	Kirtland AFB
HC130P/NLMMQR	HC-130P Loadmaster Mission Qualification(Rescue)	Kirtland AFB
MC130ELM	Loadmaster Combat Talon I Mission Qualification	Hurlburt Fld
MC130HLMMQ	Loadmaster Combat Talon II Mission Qualification	Kirtland AFB
AC-130LM	Loadmaster Gunship Mission Qualification	Hurlburt Fld
J5AZA1A251000	Airdrop Load Inspector Certification	Ft Lee VA

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>LOCATION</b>
MAC ACS	Airlift Operations School	Scott AFB
AFSOC 155000	Introduction to Special Operations Course	Hurlburt Fld
HC130LMNVG	HC-130 Loadmaster Night Vision Goggles Special Mission Qualification	Kirtland AFB
S-V86-A	Water Survival – Parachuting	Pensacola NAS
S-V83-A	Advanced Resistance Training	Fairchild AFB
S-V87-A	Arctic Survival School	Eiselson AFB

## **12. Other Courses in the Field.**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>USER</b>
	Loadmaster Flight Examiner	MAJCOM
	Loadmaster Refresher Course	MAJCOM

## **13. Extension Course Institute (ECI) Courses.**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>
CDC 1A251	Aircraft Loadmaster

### ***Section E - MAJCOM Unique Requirements***

*NOTE:* There are currently no MAJCOM unique requirements. This area is reserved.

### ***Section F - MAJCOM Unique Resource Requirements***

**14.** The following list of MAJCOM unique requirements (resource needs) is not all inclusive; however, it covers those identified during Corona Top 96.

#### **ALTUS:**

#### CURRENT ENLISTED AIRCREW TRAINING DEVICES

C-5 -- 2 Cockpit Procedures Trainers for Flight Engineers (FE) and Loadmasters (LM), 1 Cargo Load Trainer for LMs, 1 Cargo Doors Part Task Trainer for LMs, 32 Computer Based Training terminals for FEs & LMs

C-17 -- 1 Cargo Load Trainer 1/10 Scale model for LMs, 2 Weapon System Trainers for LMs, 1 Cargo Compartment Trainer for LMs

C-141 -- 2 Loadmaster Part Task Trainers for LMs, 2 Cargo Load Trainers for LMs, 20 Computer Based Training terminals for FEs & LMs

#### PROGRAMMED MODIFICATIONS AND ADDITIONS

C-5 -- FY 98 - Refurbish Cockpit Procedure Trainers for FEs and LMs

#### UNPROGRAMMED MODIFICATIONS AND ADDITIONS

C-5 -- Update Computer Based Training terminals to multi-media capability (Mid 70s terminals, low reliability), Replace Cargo Load Trainer with a Loadmaster Training Device (full scale fuselage), Overhaul Cargo Doors Part Task Trainer, Procure Virtual Reality Trainers for preflight and cargo load training

C-141 -- Virtual Reality Trainers for LM preflight, cargo loading, airdrop training

#### **SHEPPARD:**

##### CURRENT ENLISTED AIRCREW TRAINING DEVICES

C-130 and C-141 aircraft (Actual): Co-utilized, primarily maintenance trainers

Weight and balance model, Limited use; make-shift wooden board ( 2"x 6" x 8' ) model of a C-141

Basic Loadmaster Course training aids

Training equipment (palletized cargo, rolling stock, tiedown equipment, winching equipment)

Material Handling Equipment (25K-Loader, 10K Forklift)

Interactive courseware delivery training system for Enlisted Aircrew Undergraduate and Basic Loadmaster Courses

(12 Gateway Destination Multi-Media computer system & printers)

##### PROGRAMMED MODIFICATIONS AND ADDITIONS

Aircraft Scale Models for Enlisted Aircrew Undergraduate Course: One fixed-wing aircraft model with movable flight control surfaces; One rotor-wing aircraft model with movable flight control surfaces

Aircraft Scale Models for Basic Loadmaster Course: Four aircraft fuselage trainers (C-5, C-17, C-130, C-141); One generic aircraft instrument panel

#### **KIRTLAND:**

##### CURRENT AIRCREW TRAINING DEVICES

MC-130P -- 1 Part Task Trainer for FEs, LMs

MC-130H -- 1 Part Task Trainer for LMs

##### PROGRAMMED MODIFICATIONS AND ADDITIONS

MC-130H -- Configure/Modify MH-6 and AH-6 (MC-130H/P airframes) for onload and offload training for LMs

##### UNPROGRAMMED MODIFICATIONS AND ADDITIONS

MC-130H -- Modify Part Task Trainer for preflight training for LMs; Virtual Reality system for Preflight

#### **FT LEE:**

##### CURRENT ENLISTED AIRCREW TRAINING DEVICES

C-130 -- Aircraft fuselage to conduct joint airborne inspector training program